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## WHAT IS CLAIMED IS:

An electrophoretic apparatus comprising:

an electrophoretic member in which a disk-shaped member thereof has one or a plurality of passages formed therein and also such holes reaching the passage that is formed at positions corresponding to both ends of the passage on one surface of the disk-shaped member,

a voltage applying part for applying a voltage across the passage of the electrophoretic member.

a detecting part for detecting a specimen present in the passage of the electrophoretic member, and

an electrophoretic-member holding part for holding a plurality of the electrophoretic members engaged in simultaneous electrophoretic operations.

2. The electrophoretic apparatus according to claim 1, wherein: the electrophoretic-member holding part holds a plurality of the electrophoretic members on a planar member to rotate a plurality of the electrophoretic members therein, thus sequentially locating one end of each of the passages of a plurality of the electrophoretic members at a specimen dispensing position: and

a dispensing mechanism is further provided for dispensing a specimen into the hole corresponding to one end of the passage positioned at the specimen dispensing position.

An electrophoretic apparatus comprising:

an electrophoretic member in which a disk-shaped member thereof has one or a plurality of passages formed therein and also such holes reaching the passage that is formed at positions corresponding to both ends of the passage on one surface of the disk-shaped member.

a voltage applying part for applying a voltage across the passage of the electrophoretic member; and

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a detecting part for detecting a specimen present in the passage of the electrophoretic member.

wherein the detecting part consists of a fluorescent-light detecting device for detecting a fluorescent light in a detection range, the fluorescent-light detecting device comprising:

a first optical system for focusing, for image formation, a light from the detecting range into a slit hole; and

a second optical system provided with a reflection-type diffraction grating, for separating a light from the slit hole and focusing the light, for image formation, onto a detecting element.

- 4. The electrophoretic apparatus according to claim 3, comprising a reflection-type concave grating as the reflection-type diffraction grating, wherein the second optical system consists of only the reflection-type concave grating.
- 5. The electrophoretic apparatus according to claim 3, further comprising a specimen-injection monitor mechanism for detecting a specimen at a site where a specimen is injected into the passage.
- 6. The electrophoretic apparatus according to claim 5, wherein the specimen-injection monitor mechanism and the detecting mechanism are each provided with a fluorescent-light detecting optical system, which shares a common excitation light source in use.
- 7. The electrophoretic apparatus according to claim 5, wherein the specimen-injection monitor mechanism is provided with a detecting optical system having an LED as a light source thereof.
- 8. The electrophoretic apparatus according to claim 5, wherein: the electrophoretic member is provided as the passage with a specimen injection passage and a separation passage which intersect with each other, and

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the apparatus further comprises a control part for permitting the voltage applying part to supply a voltage for guiding a specimen to an intersection between the specimen injection passage and the separation passage, and for once stopping the electrophoretic apparatus in case that a specimen distribution in a predetermined range along the specimen injection passage detected by the specimen—injection monitor mechanism is not uniformed even after a predetermined time has elapsed.

The electrophoretic apparatus according to claim 5, wherein:
the electrophoretic member is provided as the passages with a specimen injection passage and a separation passage which intersect with each other, and

the apparatus further comprises a control part for once stopping the electrophoretic apparatus in case that a specimen present at an intersection between the specimen injection passage and the separation passage detected by the specimen-injection monitor mechanism when an electrophoretic voltage for specimen separation is applied by the voltage applying part fails to electrophoretically migrate into the separation passage.

## 10. An electrophoretic apparatus comprising:

an electrophoretic member in which a disk—shaped member thereof has one or a plurality of passages formed therein and also such holes reaching the passage that is formed at positions corresponding to both ends of the passage on one surface of the disk—shaped member;

a voltage applying part for applying a voltage across the passage of the electrophoretic member:

a detecting part for detecting a specimen present in the passage of the electrophoretic member:

an electrophoretic—medium filling mechanism for filling an electrophoretic medium into the passages and the reservoirs through the reservoirs of the electrophoretic member and a specimen injection mechanism for injecting a specimen into one of the reservoirs, and